



71. A man travels from X to Y to buy goods which he can get 10% cheaper in Y than in X. If the expenses of the journey are Rs. 15 and he makes a clear saving of Rs.10, how much does he pay for the goods?

(a) Rs. 225

(b) Rs. 200

(c) Rs. 150

(d) Cannot be determined

SOLUTION:

Let CP in X be Rs. x

$$\therefore \text{CP in Y} = \text{Rs. } 0.9x \therefore 0.9x + 15 + 10 = x$$

$$0.1x = 25$$

$$x = 250$$

$$\therefore \text{Price in Y} = 250 \times 0.9 = \text{Rs. } 225.$$

72. A fruit weighs 5000 gm 99% of its weight is water. It is kept in a drying room and after some time it turns out that only 98% of its weight is water. What is its weight now?

(a) 2500 gm

(b) 4500 gm

(c) 4950 gm

(d) None of these

SOLUTION:

The non-water matter is 1% of 5000 = 50 gm. After drying, this matter becomes 2% of the weight of the fruit. Hence the weight of the fruit now is 2500 gm.

73. In an examination 45% of the total numbers of students were under 15 years of age. Of these, 65% were boys and there were 441 girls. Find the total number of students.

(a) 3800

(b) 4000

(c) 2700

(d) 2800

SOLUTION:

65% of the under 15 are boys.

\therefore 35% of the under 15 are girls.

35% represents 441 girls.